

PATENT SPECIFICATION

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PROVISIONAL SPECIFICATION

Improvements in or relating to Cardboard Boxes or Containers

I, INESON NOBLE, a British subject, of Manor Box Works, Pudsey, in the County of York, do hereby declare the nature of this invention to be as follows:—

- 5 This invention relates to cardboard boxes or containers of the type used for conveying live birds, wherein apertures or ventilation holes are provided in the tops or sides, or both, of the boxes so as to allow the free passage of air. The chief object of the present invention is to provide a new or improved construction of this type of box wherein the method of ventilation is greatly improved and at the same time the box is materially strengthened.

- According to the invention the box is provided with apertures for ventilation having guard members which prevent the blocking of the air holes from inside. In the preferred construction the holes or apertures are provided in the walls at or near the corners of the box and the guard members extend diagonally across said corners leaving a space above and below for the passage of air to and from the box.

- In an embodiment of the invention the cardboard box is made up from a blank cut and scored so that when assembled it assumes a rectangular box shape provided with a lid. Apertures or ventilation holes

are provided in the walls at or near the corners and the guard members may be afforded by extensions which are formed 35 on either the side or end walls and are bent back upon themselves, extend diagonally across the corners, and are secured to the adjacent walls of the box by suitable fastening means. The extensions affording the guard members will preferably be of less depth than the walls of the box so that spaces are left between the bottom and the top of the guard members and the base and lid respectively of the box. Further ventilation holes may be provided at suitable intervals along the corners or edges of the lid so that air entering the box through the holes in the walls will flow upwardly 50 and out through the lid.

It will be seen that the present invention provides a new or improved construction of box in which the air holes in the walls are prevented from being 55 blocked from the inside by the provision of guard members which at the same time greatly strengthen the box construction as a whole.

Dated this 13th day of February, 1939.

JOHN E. WALSH & CO.,
7, East Parade, Leeds, 1;
and at Halifax.
Chartered Patent Agents.

COMPLETE SPECIFICATION

Improvements in or relating to Cardboard Boxes or Containers

- 60 I, INESON NOBLE, a British subject, of Manor Box Works, Pudsey, in the County of York, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- This invention relates to cardboard boxes or containers of the type used for conveying live birds, wherein apertures or ventilation holes are provided in the tops or sides, or both, of the boxes so as to allow the free passage of air. The chief object of the present invention is to provide a new or improved construction of

this type of box wherein the method of ventilation is greatly improved and at the same time the box is materially strengthened.

According to the invention the box is provided with guard members formed as extensions of full or complete walls of the box and bent back and secured to said walls so as to extend across the corners of the box to afford corner spaces or air shafts and prevent blocking of air holes 85 provided in the walls of the box at or near the corners and which communicate with said corner spaces or air shafts.

In order that the invention may be

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clearly understood and readily carried into effect, the same will now be more fully described with reference to the accompanying drawing which is an isometric view of a cardboard box, constructed according to one embodiment, the lid of the box being shown open so that the internal construction or arrangement can be seen clearly.

Referring to the drawing, the body of the box is made up from a blank cut and scored so that when folded and erected it assumes a rectangular box shape, and the body is maintained in its erected shape by the provision on the ends of the front and rear walls 1, 2 respectively of corner flaps 3 which lie against the adjacent ends of the end walls 4 on the inside and are secured thereto by wire staples 5 as shown, or by any other appropriate fastening means.

The front and rear walls 1, 2 of the box are formed near the vertical corners with ventilation holes at 6, and the corner flaps 3 of these walls are each formed with an extension 7 which is bent back so as to extend diagonally across the adjacent vertical corner to afford corner spaces or air shafts and serve as guards which prevent blocking of the air holes 6 from inside the box. The guards 7 are formed with securing flaps 8 whereby they are fastened by staples 9 to the adjacent front or rear wall 1 or 2 as the case may be, and said extensions or guards 7 are made of less depth than the box walls so as to leave a narrow space between their lower edges and the base 10 of the box and a somewhat larger space between their upper edges and the lid 11 when this is closed down, thereby allowing free circulation of air.

The rear side of the lid 11, which is formed from a separate blank, is provided with a hinging strip 12 whereby it is secured by staples 13 to the rear wall 2, and the remaining three sides of the lid 11 are formed with flanges 14 which overhang the upper marginal portions or edges of the walls 1 and 4 of the box when the lid 11 is closed.

In order to afford additional ventilation, the lid 11 may be formed with through holes 15 preferably across the corners

afforded between the top and the flanges, as shown.

Obviously the corner flaps with the guard extensions and guard securing flaps may be formed on the two end walls instead of the front and rear walls as described with reference to the drawing.

It will be seen that the present invention provides a new or improved construction of box in which the air holes in the walls are prevented from being blocked from the inside by the provision of guard members which at the same time greatly strengthen the box construction as a whole.

Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

1. In cardboard boxes or containers of the type specified, the provision of guard members formed as extensions of full or complete walls of the box and bent back and secured to said walls so as to extend across the corners of the box to afford corner spaces or air shafts and prevent blocking of air holes provided in the walls at or near the said corners and which communicate with said corner spaces or air shafts.

2. A cardboard box or container according to claim 1, wherein spaces are afforded above and below the guard members so as to allow free circulation of air to and from the interior of the box.

3. A cardboard box or container according to claim 2, wherein the guard members are of less depth than the walls so as to leave spaces between the top and bottom thereof and the lid and base respectively of the box.

4. A cardboard box or container of the type specified, constructed, arranged and adapted for use substantially as hereinbefore described with reference to and as illustrated in the accompanying drawing.

Dated this 30th day of November, 1939.

JOHN E. WALSH & CO.,

7, East Parade, Leeds, 1;

and at Halifax.

Chartered Patent Agents.

[This Drawing is a reproduction of the Original on a reduced scale.]

